

What is claimed is:

- 1) A two part needle for a syringe for injecting heated thermoplastic material in a dental cavity comprising a rear part of greater diameter than the front part, a chamber in the rear part, an open ended cartridge provided with a nozzle and having said heated thermoplastic material therein positioned in said chamber, and plunger means in said syringe for forcing said thermoplastic material out of said nozzle and through said front part of the needle and into said dental cavity.
- 2) The two part needle as claimed in Claim 1 wherein the length of the front part can be selected from 20 mm to 30 mm prior to attachment to said rear port, and, at least some of the front part is of such a small diameter as to be bendable when in use.
- 3) A two part needle as claimed in Claim 1 wherein said rear part has a circumferential external groove, an O ring in said groove whereby said chamber is defined therein.
- 4) A two part needle as claimed in Claim 3 wherein said groove forms a narrow opening in said chamber, and said nozzle of said cartridge projects through said narrow opening.
- 5) A two-part needle as claimed in Claim 1 wherein said first part is attached to said second part by soldering.
- 6) A two-part needle as claimed in Claim 1 wherein said first part is attached to said second part by brazing.
- 7) A two-part needle as claimed in Claim 1 wherein said first part is attached to said second part by gluing.
- 8) A needle for a syringe for injected heated thermoplastic material in a dental cavity comprising a rear tubular part provided with a funnel-shaped opening adjacent to said syringe, a front tubular part, said rear part having a diameter greater than said first part, said rear tubular part having a circumferential groove defining the end of said chamber remote from said funnel-shaped opening, an open-ended cartridge having said heated thermoplastic material therein

positioned in said chamber, and plunger means in said syringe for forcing said thermoplastic material out of said cartridge and through said front part of the needle and into said dental cavity.

9) A needle as claimed in Claim 8 wherein said thermoplastic material is gutta percha.

10) A two part needle for an endodontic syringe for injecting a heated thermoplastic material into a root canal cavity comprising said needle having a front and rear tubular parts that are connected together, a cartridge having said heated thermoplastic material therein, said rear tubular part being of such a size and shape to form a chamber having said cartridge for pressing said thermoplastic material out of said cartridge and through said front tubular part of the needle and into said root canal cavity.

11) A needle as claimed in Claim 8 wherein said plunger means corresponds in configuration to said funnel shaped opening in said rear tubular part.

12) A two-part needle, as claimed in Claim 10 wherein said thermoplastic material is gutta percha.

13) The two-part needle as claimed in Claim 10 wherein said needle is fabricated of a metal alloy.

14) The two-part needle as claimed in Claim 10 wherein said needle is fabricated of a thermo-conductive plastic.